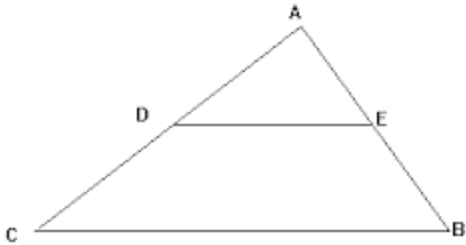


Name: _____

Date: _____

Algebra 1A Pd _____

Similar Triangles



1. Triangle ADE is similar to Triangle ACB.

a. Fill in the proportional statements:

AD is to _____ as AE is to AB.

DE is to _____ as AE is to AB.

CA is to _____ as BA is to EA.

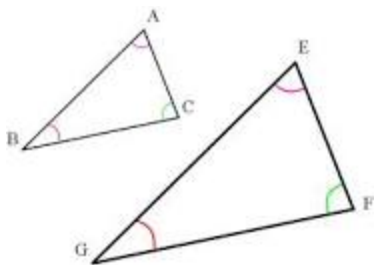
b. Fill in the congruence statements.

$\angle ACB$ is congruent to \angle _____.

$\angle ABC$ is congruent to \angle _____.

2. Using the triangle above, if AD is 5, AC is 10 and AE is 4, find AB.

3. Using the triangle above, if AE is 2, AB is 6 and DE is 5, find CB.



4.

Triangle ABC is similar to Triangle EGF.

a. Write three congruence statements regarding the angles of the triangles.

b. Write a proportional statement that includes all six sides.

5. All the angles of a triangle add to 180 degrees. Fill in the degree measures requested.

$m\angle A = 40$ $m\angle B = \underline{\hspace{2cm}}$ $m\angle C = 80$ $m\angle E = \underline{\hspace{2cm}}$ $m\angle F = \underline{\hspace{2cm}}$ $m\angle G = \underline{\hspace{2cm}}$

6. Sketch a pair of similar triangles that are rotated in different directions.

